

# MONACO 6000

Architectural In-Ground





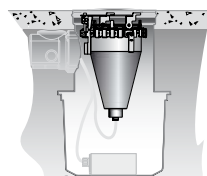
## The Monaco 6000: not better, just best.

### The same superior in-ground fixture with maximized potential.

Originally introduced in 2005, the **Monaco 6000** series is an all purpose, in-ground family of luminaires, engineered to provide the highest level of sustained performance and durability. Its unique features, including the innovative **Venterra™** heat and water management system and the exclusive **Beam Driver™** aiming system, make resilience and flexibility integral to every fixture. With its evolution, the Monaco 6000 now offers an expanded array of sources, beam spreads and lens options, realizing its full potential for efficient and impactful lighting design.



Monaco 6000  
In-Ground Architectural Uplight



## The Evolution of Flexibility.

### Adjustable optics was only the beginning.

The Monaco 6000 is available as both an adjustable (A) and non-adjustable (N) fixture, with the adjustable option providing up to a 15° tilt on any axis and offering a full 360° of horizontal rotation. By utilizing either the TL10 or TL20 lens, two of the five new optical control options, a further tilt of 10 to 20 degrees is now possible.

Within the Monaco series, there are also two options for source capability: the 6000, for lamp specifications that require secondary optical control, including point sources and compact florescent sources, and the 6002, for specifications utilizing PAR and AR111, self-reflectorized sources. Both the 6000 and 6002 offer a wide range of beam spreads, from the spot and narrow flood, to the newly introduced wall wash option.





## Engineered for the Elements.

### The Monaco defies earth, water, and traffic.

The Monaco 6000 family is both engineered to last and capable of withstanding the most extreme outdoor environments. The innovative Venterra™ heat and water management system is just one example of the intense engineering that went into the fixture's resilient design. The corrosion resistant, in-ground housing is made from injection molded polycarbonate, and is drive-over rated up to 5000 lbs.

#### TRIM ASSEMBLY

Rugged solid brass or stainless steel exterior trim for the ultimate in corrosion resistance.

#### LIGHT CONTROL MEDIA

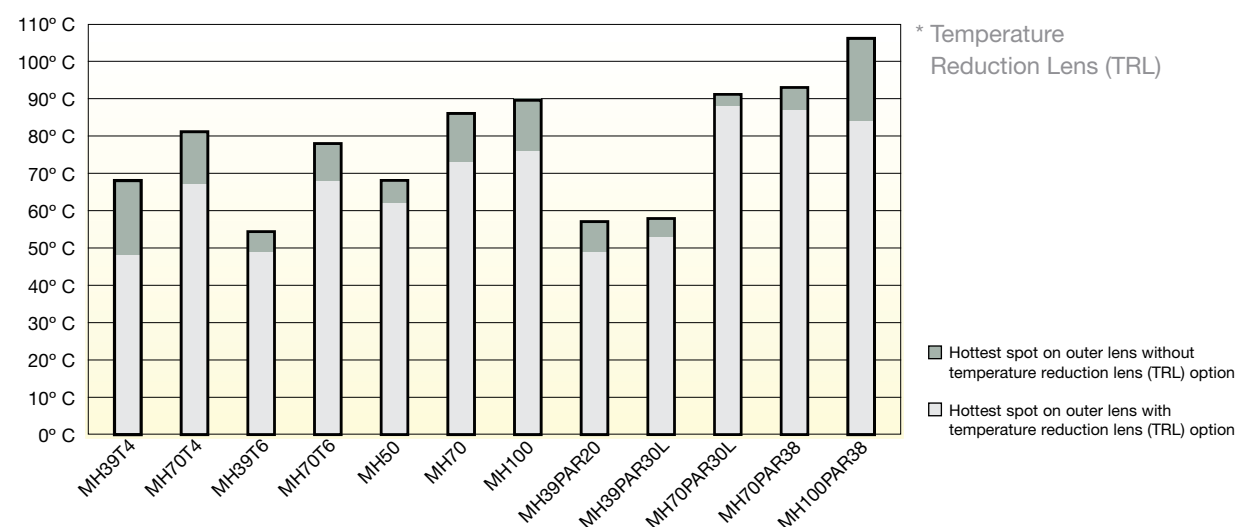
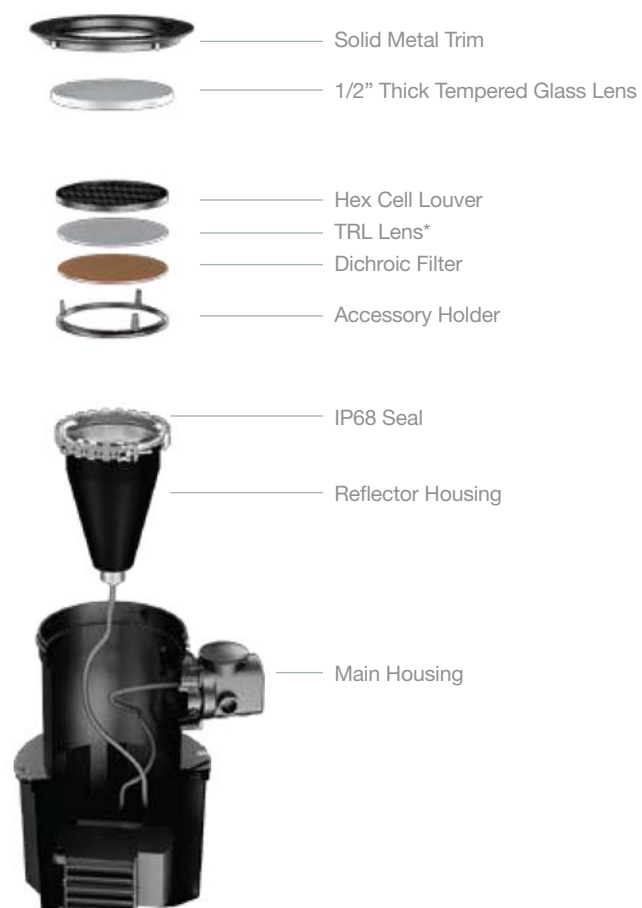
Innovative accessory holder accommodates up to three accessories. Choose from an array of dichroic filters, a hex cell louver, an internal linear spread lens, or the Temperature Reduction Lens (TRL).

#### LAMP MODULE

The lamp module is the heart of the Monaco, offering an IP68 ingress protection rating. The tilt angle and rotation may be controlled by the innovative Beam Driver™ biaxial aiming system, integral to the Monaco's lamp module.

#### HOUSING

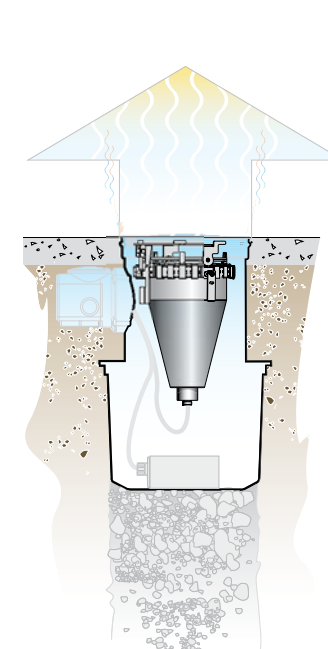
Rugged and corrosion resistant injection molded polycarbonate housing offers long term, outdoor durability, and provides a 5000 pound drive-over rating, when ordered with the optional drive-over structural bracket kit (-DSB).



## Venterra™

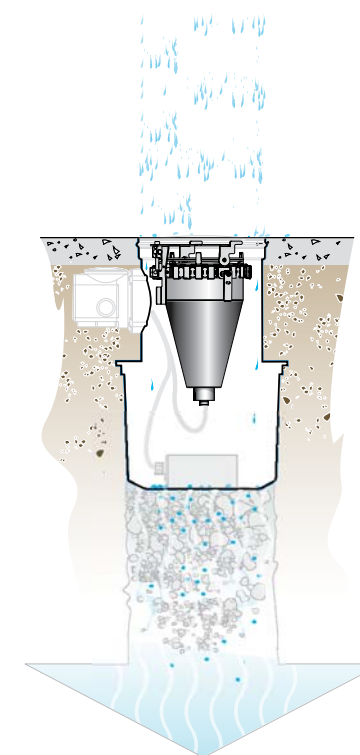
### Innovative Heat and Moisture Management.

The key component of the Venterra™ system is the inner lamp module, which is IP68 rated. IP68 refers to an IEC standard that rates the protection an enclosure provides against particles and liquids. The IP68 rating is the highest rating possible and ensures that the enclosure is not only dust tight but can also withstand continuous submersion.



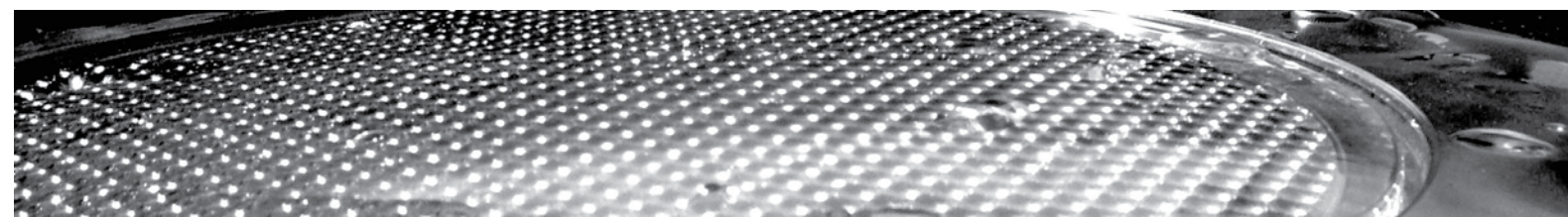
#### THERMAL MANAGEMENT

- Heat management system allows luminaire to "breathe" to avoid overheating
- Temperature Reduction Lens (TRL) reflects heat and parts of the infrared spectrum back into the fixture, reducing top lens temperature
- Potential for up to three lenses between the source and the exposed surface



#### MOISTURE MANAGEMENT

- Flow-through system allows moisture to easily exit the fixture
- Waterproof cables
- Gasketed top trim
- Gasketed and mechanically sealed inner lamp module







## Follow the Monaco road.

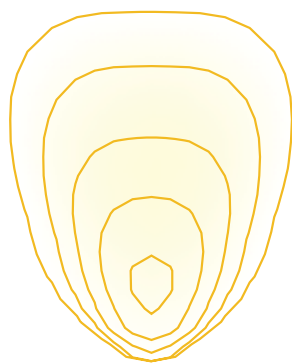
### New options mean infinite routes to design success.

With all of the choices available, the path to specifying the Monaco may seem somewhat daunting. However, it is this very breadth of specification possibilities that enables greater ease in satisfying lighting design requirements for any application. Let the roadmap below be a guide, and be sure to stop and see all of the new options along the way.



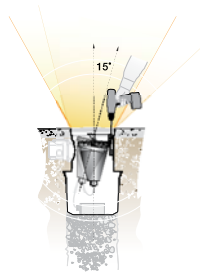
#### Lamp Sources

- AR111 Halogen **NEW**
- CFL Compact Fluorescent **NEW**
- E17 High Pressure Sodium **NEW**
- T4.5 Metal Halide
- T6 Metal Halide
- ED17 Metal Halide
- PAR20 Metal Halide
- PAR30 Metal Halide
- PAR38 Metal Halide



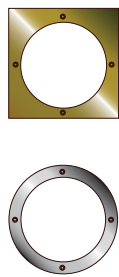
#### Beam Characteristics

- Wall Wash **NEW**
- Spot
- Narrow Flood
- Medium Flood
- Wide Flood



#### Beam Adjustability

- Beam Driver™
- External Biaxial Hot Aiming
- + / - 15° tilt
- 360° rotation



#### Trim Types & Finishes

- Round
- Square **NEW**
- Brass is standard material
- Stainless Steel optional
- Standard Lumière finishes available
  - Black (BK)
  - Bronze (BZ)
  - City Silver (CS)
  - Verde (VE)
  - White (WT)



#### Guards & Shields

- Rock guard
- Straight glare shield / Rock guard
- Horizontal / Vertical Louver
- Domed glare shield
- Straight glare shield

#### External Lens Options

- Standard Lens is Clear
- Optional Lenses include:
  - Non slip lens
  - Axial spread lens **NEW**
  - Fully diffuse lens **NEW**
  - 10° tilt lens **NEW**
  - 20° tilt lens **NEW**
  - Radial spread lens **NEW**

#### Light Control Media

- |                |                 |                               |
|----------------|-----------------|-------------------------------|
| Color Filters: |                 |                               |
| Peach          | Red             | Light Management:             |
| Amber          | Dark Blue       | Temperature Reduction Lens    |
| Green          | Light Blue      | Hex Cell Louver               |
| Medium Blue    | Neutral Density | Linear Spread Lens (Internal) |
| Yellow         | Magenta         |                               |



## Understanding Monaco 6000

The heart of the new Monaco 6000 series product centers around the full range of optical choices now available including:

- Beam spread
- Beam angle / tilt
- Diffusion
- Rotation
- Coloration

Monaco 6000 point sources and compact fluorescent sources offer five distributions:

- Spot
- Narrow Flood
- Flood
- Wide Flood
- Wall Wash - NEW

Monaco 6002 self-reflectorized lamps offer three distributions:

- Spot
- Flood
- Wide Flood

### Wall Wash - Even Illumination

Monaco's all new Wall Wash optical system offers excellent performance where the desired effect is a consistent level of light across an entire vertical surface. Proper spacing and setback can help achieve outstanding lighting results on large outdoor vertical surfaces.



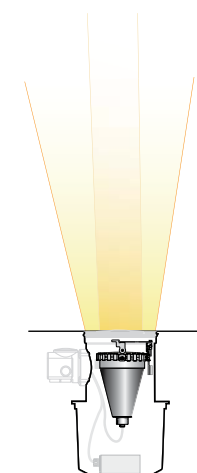
### Spot

Spot distribution is perfect for strategically placing the light so that it focuses on the subject and nothing else.



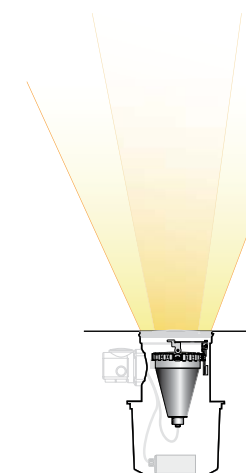
### Narrow Flood

Narrow flood can be especially effective in grazing applications where a wall's texture or details need to be accentuated.



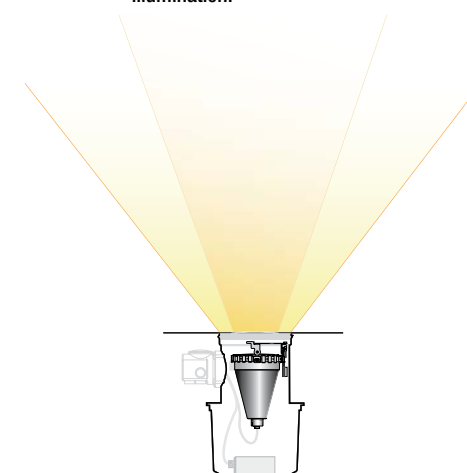
### Flood

Monaco floods are great for uplighting trees and foliage. When used with color filters or beam spreading lenses, the effect can be dramatic.



### Wide Flood

A wider distribution of light means fewer sources may be needed for the application and can contribute to energy and cost savings. Perfect for outdoor corridors and wall illumination.

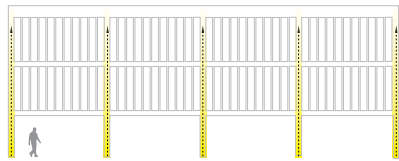






**Column Accents**

Accenting architecture with spot lighting, as is shown here with the highlighted columns, is an excellent way to impart a striking and dramatic effect to any application. Able to provide the greatest precision in beam spread, an AR111 source is ideal for uplighting narrow vertical architectural details.



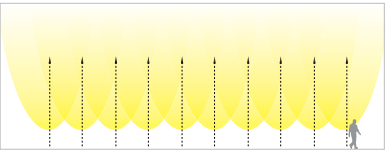
Elevation



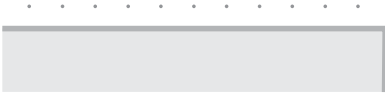
Plan

**Wall Highlights**

Another dramatic nighttime effect is wall washing – particularly when accenting colored and textured surfaces such as the warm wood wall application shown here. This smooth design has been achieved with a T6, 150W Metal Halide, with a 4’ wall setback and 10’ fixture spacing.



Elevation



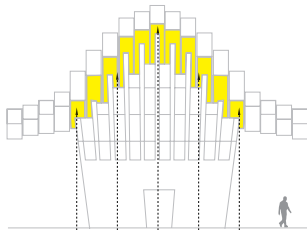
Plan



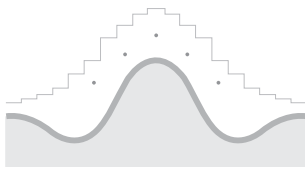


**Accenting Large Scale Architectural Details**

With its dynamic surface and towering 30' distance from the light source, this church canopy creates a unique design challenge. The solution is provided by one of the Monaco's most precise and highest wattage uplighting options: a narrow flood 150 watt T6.



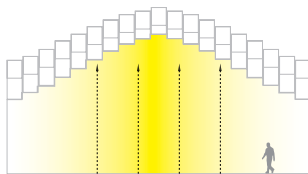
Elevation



Plan

**Modeling Curved Surfaces**

The church's unique undulating exterior walls require an equally unique lighting design to best illuminate and accent their curves. By installing the sources in a straight line, as shown here, a perfectly even gradient of light is produced, clearly revealing the curved architectural detail.



Elevation



Plan



Horizontal / Vertical Louver (HVL)



Rock Guard (RG)



Straight Glare Shield (SG)



Straight Glare Shield / Rock Guard (SGR)



Domed Glare Shield (DG)



DESCRIPTION

A fully adjustable, in ground lighting fixture for use with metal halide point sources, metal halide PAR lamps, compact florescent lamps, high pressure sodium lamps and low voltage AR111 lamps. Fixture includes lamp, factory-installed in a waterproof lamp module. Our Ventera™ heat and water management system keeps outer lens temperatures in check while protecting inner components from the effects of ground water. Our exclusive Beam-Driver™ aiming system provides up to 15° tilt and 360° rotation of the lamp module. It operates with a conventional cordless drill or screwdriver to provide easy, precision aiming without disturbing the sealed lamp module or looking into the energized lamp source. Corrosion-proof housing design is suitable for walk-over and drive-over applications to 5000 lbs. A complete line of accessories is available.

MATERIAL

Housing and side mounted wiring compartment are constructed from corrosion-proof black polycarbonate. Hardware and internal components are stainless steel. Lens is minimum 1/2" thick clear tempered glass.

PAINTED FINISH

Painted trim rings are constructed from solid cast brass and double protected by a chromate conversion undercoating and polyester powdercoat paint finish.

METAL FINISH

Machined natural brass or stainless steel trim rings are unpainted to reveal the natural beauty of the material. Brass will patina naturally over time.

ELECTRICAL

Fixture includes an integral core & coil ballast assembly (120/208/240/277/347V). Rated for minimum -30° C starting temperature. Ballast is encapsulated in UL-approved, waterproof potting material. An optional electronic ballast can be substituted by using the –EL option when ordering.

LABELS & APPROVALS

UL and cUL listed, standard wet label. Manufactured to ISO 9001:2000 Quality Systems Standard. IBEW union made.

ACCESSORIES

FILTERS

- F71-6= Peach Dichroic Filter - 6.75" dia.
- F72-6= Amber Dichroic Filter - 6.75" dia.
- F73-6= Green Dichroic Filter - 6.75" dia.
- F74-6= Medium Blue Dichroic Filter - 6.75" dia.
- F75-6= Yellow Dichroic Filter - 6.75" dia.
- F76-6= Red Dichroic Filter - 6.75" dia.
- F77-6= Dark Blue Dichroic Filter - 6.75" dia.
- F78-6= Light Blue Dichroic Filter - 6.75" dia.
- F79-6= Neutral Density Dichroic Filter - 6.75" dia.
- F80-6= Magenta Dichroic Filter - 6.75" dia.

OPTICAL LOUVER

- LVR-6= Hex Cell Louver (reduces glare) - 6.75" dia.
- LSL-6= Linear Spread Lens (internal) - 6.75" dia.

GUARDS & SHIELDS

- DG= Domed Glare Shield
- HVL= Horizontal / Vertical Louver
- RG= Rock Guard
- SG= Straight Glare Shield
- SGR= Straight Glare Shield / Rock Guard

MONACO 6000

FIXTURE w/ Point Metal Halide Source

- 6000A= w/ Beam-Driver™, 15° tilt / 360° pan
- 6000N= Non-adjustable uplight

SOURCE

Metal Halide

- MH39T4= 39W / T4.5 / G8.5
- MH39T6= 39W / T6 / G12
- MH70T6= 70W / T6 / G12
- MH150T6= 150W / T6 / G12
- MH50= 50W / ED17 / MED BASE
- MH70= 70W / ED17 / MED BASE
- MH100= 100W / ED17 / MED BASE
- MH150= 150W / ED17 / MED BASE
- MH175= 175W / ED17 / MED BASE

High Pressure Sodium

- HPS35= 35W / E17 / MED BASE
- HPS50= 50W / E17 / MED BASE
- HPS70= 70W / E17 / MED BASE
- HPS100= 100W / E17 / MED BASE
- HPS150= 150W / E17 / MED BASE

Compact Fluorescent

- CF26= 26W / TTT / GX24q-3
- CF32= 32W / TTT / GX24q-3
- CF42= 42W / TTT / GX24q-4
- CF57= 57W / TTT / GX24q-5

VOLTS

- 120= 120V
- 208= 208V
- 240= 240V
- 277= 277V
- 347= 347V

DISTRIBUTION

- SP= Spot
- NFL= Narrow Flood
- MFL= Medium Flood
- WFL= Wide Flood
- WW= Wall Wash

Compact Fluorescent available in MFL and WW distribution only.

FINISH

Painted

- BK= Black
- BZ= Bronze
- CS= City Silver
- VE= Verde
- WT= White

Metal

- NBR= Brass
- NSS= Stainless Steel

OPTIONS

- 6000-BB=Back box
- AXL5 = 5° axial spread lens in lieu of standard
- CP= Concrete pour collar
- DL = Diffused lens in lieu of standard
- DSB = 5000lb drive-over structural bracket kit
- EL = Electronic HID ballast
- FUS = Fusing
- LBB = Less back box
- Advance Ship Back Box (select LBB option and order back box separately)
- NSL = Non-slip textured lens
- RSL = Radial spread lens in lieu of standard
- SQ = Square trim in lieu of round
- TL10 = 10 degree tilt lens in lieu of standard
- TL20 = 20 degree tilt lens in lieu of standard
- TRL = Temperature reduction lens

MONACO 6002

FIXTURE w/ PAR Metal Halide or AR111 Halogen Source

- 6002A= w/ Beam-Driver™, 15° tilt / 360° pan
- 6002N= Non-adjustable uplight

SOURCE

Metal Halide

- MH39PAR20= 39W / PAR20 / MED BASE
- MH70PAR30= 70W / PAR30 / MED BASE
- MH70PAR38= 70W / PAR38 / MED BASE
- MH100PAR38= 100W / PAR38 / MED BASE
- MH175PAR38= 175W / PAR38 / MED BASE

Halogen

- AR11135 = 35W / AR111 / G53
- AR11135 = 35W / AR111 / G53
- AR11150 = 50W / AR111 / G53
- AR11150 = 50W / AR111 / G53
- AR11175 = 75W / AR111 / G53
- AR11175 = 75W / AR111 / G53
- AR11175 = 75W / AR111 / G53
- AR111100 = 100W / AR111 / G53
- AR111100 = 100W / AR111 / G53
- AR111100 = 100W / AR111 / G53

VOLTS

- 120= 120V
- 208= 208V
- 240= 240V
- 277= 277V
- 347= 347V
- 120/12 = 12V w/ Integral Transformer
- 208/12 = 12V w/ Integral Transformer
- 240/12 = 12V w/ Integral Transformer
- 277/12 = 12V w/ Integral Transformer
- 347/12 = 12V w/ Integral Transformer

DISTRIBUTION

- SP= Spot
- FL= Flood
- WFL= Wide Flood

WFL available only for 70W / 100W / 175W PAR38 or 75W / 100W AR111 only.

MH175PAR38 available with WFL distribution only.

FINISH

Painted

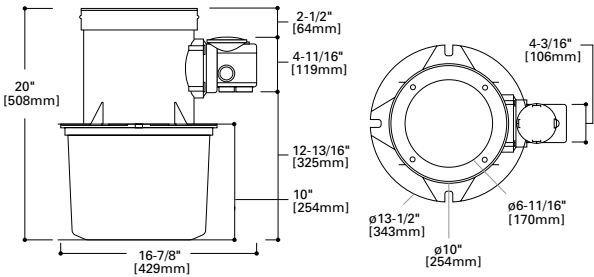
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